Problem Statement: To Predict accurately Fluorescence and color of diamond to reduce of loss caused by mi-identification.

Solution:

* Received Photo-diode spectroscopy data for different Diamonds.
* Cleaned and processed raw data which will be used for feature engineering
* Extracted Useful insights by Exploratory Data Analysis, visualization.
* Trained and tested many Different ensembles of machine learning on the cleaned and processed data
* Applied Hyper-Parameter Tuning on best algorithms to achieve accuracy more than 95% for predicting properties of Diamond.